FIG. 1

Encoded Output Signal

36

51

Gain Control Circuit

50

Scaler

48

Logic Circuit

46

40

42

44

Digitized Voice Data

Auxiliary Data

Pseudo-Random Data

FIG. 2

12

to Central Office

FIG 3

Formatter

Modulator

RF Section

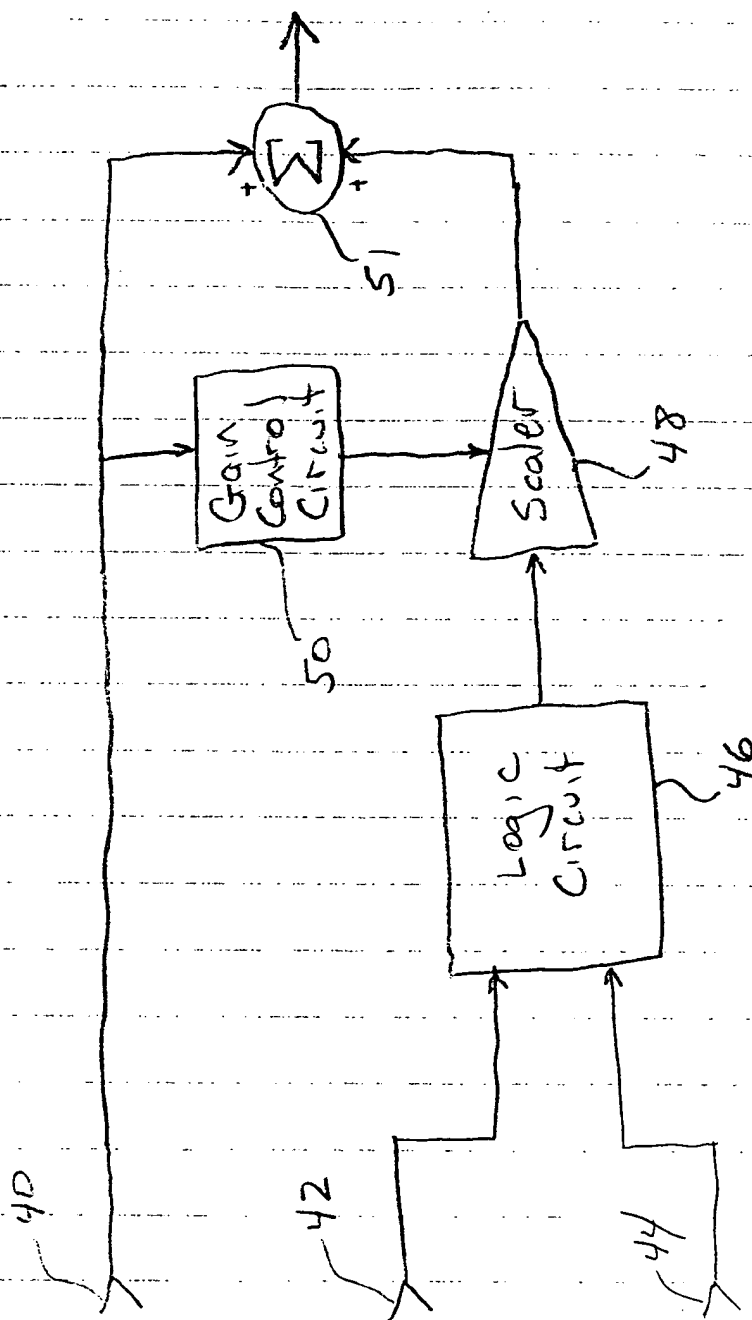Demodulator

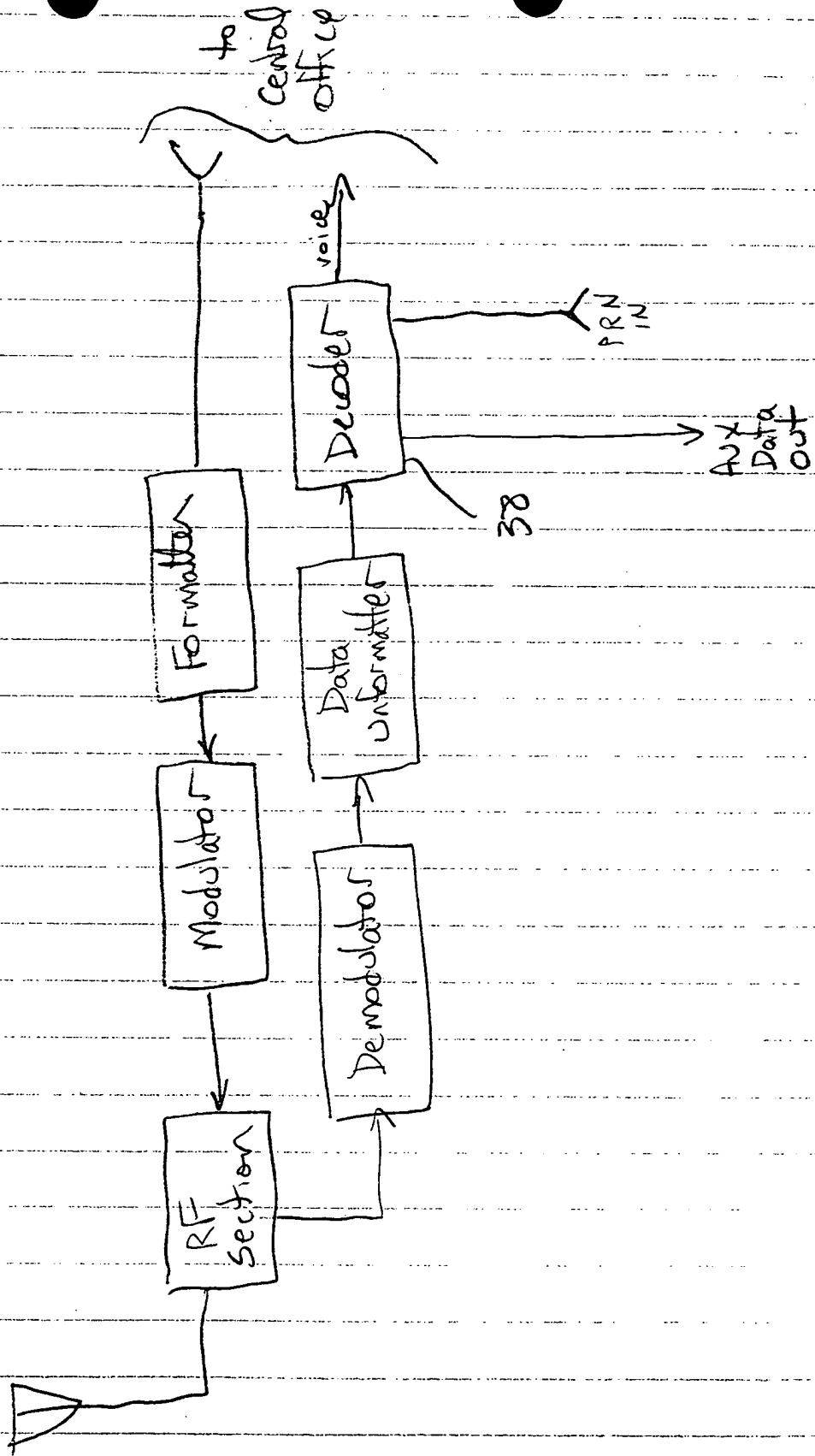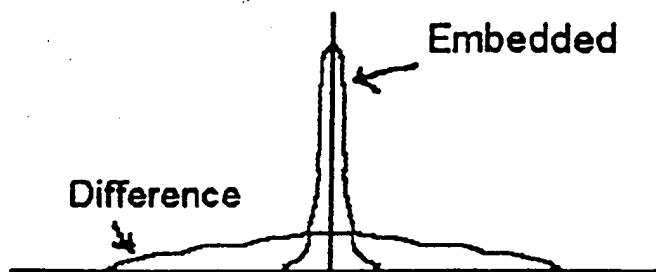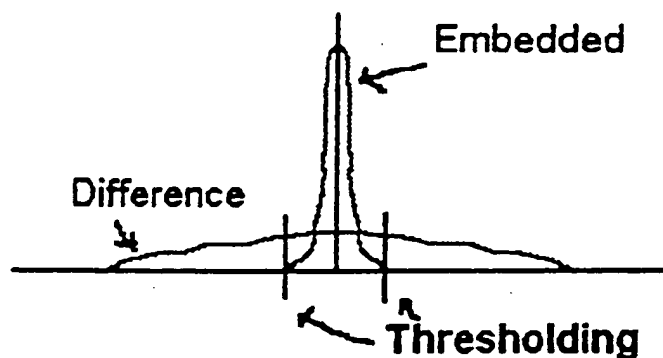Data Unformatter

Decoder

voice

PRN IN

Aux Data Out

38

Figure 4A

Mean-Removed Histograms of
Difference Signal and Known Embedded
Code Signal

Figure 4B

Mean-Removed Histograms of
First Derivatives (or scaler gradients
in the case of an image)